Cat®
275 XE

Compact Track Loader

Features:

The Cat® 275 XE Compact Track Loader (CTL), with its vertical lift design, delivers extended reach and lift height for quick and easy truck loading. Its standard equalizer (E-bar) undercarriage system provides superior traction, flotation, stability, and speed to work in a wide range of applications and underfoot conditions. The 275 XE features the following:

- **Redesigned Operator Station** delivers a larger operating environment, and combined with additional seat travel, the 275 XE provides more space for operators of any size. The optional **one-piece, sealed, and pressurized cab** offers a clean and quiet workspace with excellent air distribution through optimally placed vents throughout the cab.
- **Available ventilated and heated high-back air ride seat** with seat-mounted adjustable joystick controls deliver industry-leading operator comfort.
- **High-performance power train** provides standard two-speed travel, combined with the optional Speed Sensitive Ride Control system for operation on rough terrain, enabling better load retention, increased productivity, and greater operator comfort.
- **High Horsepower, High Torque Engine** with Electronically controlled Cat® C3.6TA (turbocharged, after-cooled) engine that meets U.S. EPA Tier 4 Final and EU Stage V emission standards while delivering maximum horsepower across a wide RPM range and providing high torque for increased working performance, no matter the application.
- **XE Hydraulic System** provides the highest flow and highest pressure in the Cat Compact Track Loader line-up to deliver maximum hydraulic horsepower to efficiently run even the most power hungry attachments
- **Standard equalizer bar (E-bar) undercarriage and standard two-speed travel.** Harnessing Caterpillar's heritage and leadership with track-type tractors, the standard E-bar CTL undercarriage provides a hybrid undercarriage solution delivering the benefits of a rigid style undercarriage design when lifting heavy loads or when using heavy attachments (example: mulcher, dozer blade, grader blade), while also providing the benefits of an oscillating undercarriage design when encountering terrain or obstacles.
- **Maximize machine capability and control with the Advanced Joysticks and Advanced Touchscreen Monitor.** The **20.3 cm (8-inch) Advanced Touchscreen Monitor** offers cutting-edge functionality and control that includes an integrated radio, Bluetooth® connectivity, and multi-camera (side-view) option, and supports 32 different language choices. The **Advanced Joysticks** provide unmatched control of machine functions and adjustments within the monitor without operators having to remove their hands from the controls. This includes the on-joystick navigation of the Advanced Touchscreen Monitor, radio volume up/down/mute, creep activation, creep on/off, creep speed increment/decrement, one-button Smart Attachment control activation, and additional auxiliary control buttons that deliver single-button control of complex attachment functions.
- **Available Rear Auxiliary** ready option provides hydraulic valving and lines that deliver a method to power hydro-mechanical attachments that mount to the rear of the machine (such as a rear scarifier, winch, etc.).
- **Ground-level access** to all daily service and routine maintenance points help reduce machine downtime for greater productivity.
- **Broad range of performance-matched Cat Attachments** make the Cat Compact Track Loaders the most versatile machine on the job site.

CAT®

Specifications

Engine

Engine Model	US EPA Tier 4 Final/ EU Stage V, Cat C3.6TA (turbocharged and after-cooled)	
Engine Power ISO 14396:2002 (at 2,200 RPM) – with High Flow Attachment connected	100 kW	134 hp
Gross Power SAE J1995:2014 (@ 2400 rpm)	91 kW	122 hp
Net Power SAE J1349:2011	90 kW	121 hp
Net Power ISO 9249:2007	89 kW	120 hp
Peak Torque at 1,500 rpm SAE J1995	551 Nm	406 lbf-ft
Displacement	3.6 L	221 in^3
Stroke	98 mm	3.9 in
Bore	120 mm	4.7 in

- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan at minimum speed, air intake system, exhaust system, and alternator.

Weights*

Operating Weight	5763 kg	12,705 lb

*Operating Weight, Operating Specifications and Dimensions all based on 75 kg (165 lb) operator, all fluids, two speed (variable), 2036 mm (80 in) low profile bucket, 400 mm (15.7 in) tracks, triple flange front/rear idler, XE (H6) hydraulics with rear auxiliary, enclosed cab with glass door, side windows, heater, air ride suspension seat, advanced monitor, 1000 CCA battery, no optional counterweights and manual quick coupler (unless otherwise noted).

Power Train

Travel Speed (Forward or Reverse)		
One Speed	8.4 km/h	5.2 mph
Two Speed	12.5 km/h	7.8 mph

Cab

Rollover Protective Structure (ROPS)	ISO 3471:2008	
Falling Object Protective Structure (FOPS)	ISO 3449:2005 Level I ISO 3449:2005 Level II (Optional)	

Service Refill Capacities

Cooling System	17.5 L	4.6 gal
Engine Crankcase	9.0 L	2.4 gal
Fuel Tank	136.1 L	36.0 gal
Hydraulic System	41.0 L	10.8 gal
Hydraulic Tank	26 L	6.9 gal
Diesel Exhaust Fluid (DEF) Tank	11.0 L	2.9 gal
External Fuel Tanks (adds to standard fuel tank)	85.5 L	22.6 gal

Hydraulic System

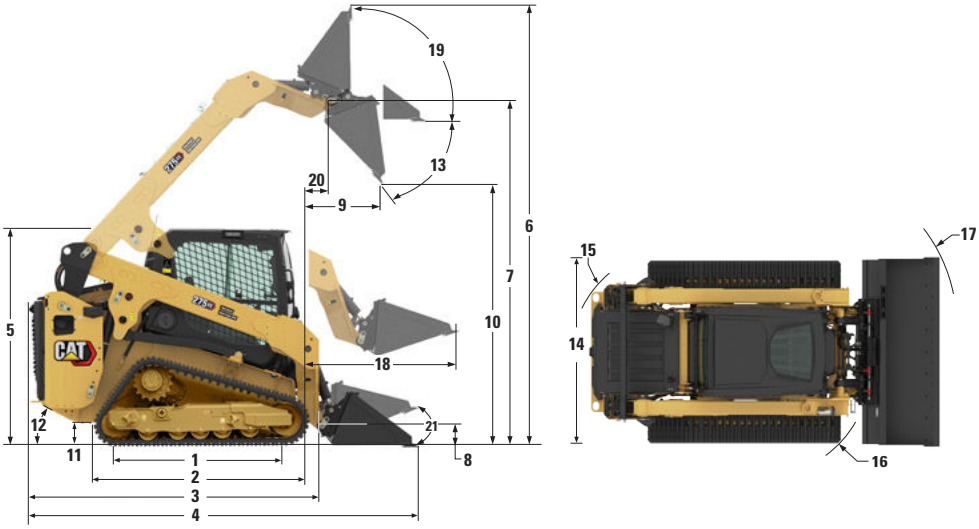
Hydraulic Flow – High Flow XE†:		
Loader Hydraulic Pressure	31 000 kPa	4,496 psi
Loader Hydraulic Flow	150 L/min	40 gal/min
Hydraulic Power (calculated)	77.5 kW	103.9 hp
Hydraulic Flow – High Flow XPS*:		
Loader Hydraulic Pressure	28 000 kPa	4,061 psi
Loader Hydraulic Flow	129 L/min	34 gal/min
Hydraulic Power (calculated)	60.2 kW	80.7 hp
Hydraulic Flow – Standard:		
Loader Hydraulic Pressure	24 130 kPa	3,500 psi
Loader Hydraulic Flow	86 L/min	23 gal/min
Hydraulic Power (calculated)	34.6 kW	46.4 hp

†When equipped with 400 Series Cat attachments.
*When equipped with 300 Series Cat attachments.

Operating Specifications*

Enclosed ROPS:		
Operating Weight	5763 kg	12,705 lb
Tipping Load	5450 kg	12,015 lb
Rated Operating Capacity (35%)	1908 kg	4,205 lb
Rated Operating Capacity (50%)	2725 kg	6,008 lb
Ground Contact Area (400 mm/15.7 in tracks)	1.61 m^2	2496 in^2
Ground Contact Area (450 mm/17.7 in tracks)	1.81 m^2	2808 in^2
Ground Pressure (400 mm/15.7 in tracks)	35.1 kPa	5.1 psi
Ground Pressure (450 mm/17.7 in tracks)	31.3 kPa	4.5 psi
Counterweight Adds:		
Operating Weight	+194 kg	+428 lb
Tip Load	+361 kg	+796 lb
Rated Operating Capacity (35%)	+126 kg	+279 lb
Wide Tracks (17.7 in/450 mm) Set Adds:		
Operating Weight	+22 kg	+49 lb
Tip Load	+19 kg	+42 lb
Rated Operating Capacity (35%)	+7 kg	+15 lb
Heavy-Duty Rear Door Guard Adds:		
Operating Weight	+75 kg	+165 lb
Tip Load	+172 kg	+379 lb
Rated Operating Capacity (35%)	+60 kg	+133 lb
Heavy-Duty Rear Bumper Adds:		
Operating Weight	+79 kg	+174 lb
Tip Load	+171 kg	+377 lb
Rated Operating Capacity (35%)	+60 kg	+132 lb
LM1 Package Adds:		
Operating Weight	+63 kg	+130 lb
Tip Load	+36 kg	+79 lb
Rated Operating Capacity (35%)	+13 kg	+28 lb
LM2 Package Adds:		
Operating Weight	+274 kg	+604 lb
Tip Load	+449 kg	+991 lb
Rated Operating Capacity (35%)	+157 kg	+347 lb
Auxiliary Cooler and FOPS Level 2 Plate Adds:		
Operating Weight	+254 kg	+560 lb
Tip Load	+332 kg	+732 lb
Rated Operating Capacity (35%)	+116 kg	+256 lb
FOPS LEVEL 2 Plate Adds:		
Operating Weight	+73 kg	+161 lb
Tip Load	+113 kg	+249 lb
Rated Operating Capacity (35%)	+40 kg	+87 lb
Breakout Force, Tilt Cylinder	4519 kg	9,963 lb
Breakout Force, Lift Cylinder	2913 kg	6,422 lb

Specifications *(continued)*



Dimensions*

1	Length of Track on Ground	1836 mm	72.3 in
2	Overall Length of Track	2341 mm	92.2 in
3	Length without Bucket	3250 mm	128.0 in
4	Length with Bucket on Ground	3880 mm	152.8 in
5	Height to Top of Cab	2230 mm	87.8 in
6	Maximum Overall Height	4193 mm	165.1 in
7	Bucket Pin Height at Maximum Lift	3415 mm	134.4 in
8	Bucket Pin Height at Carry Position	205 mm	8.1 in
9	Reach at Maximum Lift and Dump	814 mm	32.0 in
10	Clearance at Maximum Lift and Dump	2694 mm	106.1 in
11	Ground Clearance	280 mm	11.0 in
12	Departure Angle	29.5°	
13	Maximum Dump Angle	44.7°	
14	Vehicle Width (400 mm/15.7in tracks)	1926 mm	75.8 in
	Vehicle Width (450 mm/17.7 in tracks)	1976 mm	77.8 in
15	Turning Radius from Center – Machine Rear	1931 mm	76.0 in
16	Turning Radius from Center – Coupler	1531 mm	60.3 in
17	Turning Radius from Center – Bucket (racked)	2320 mm	91.3 in
18	Maximum Reach with Arms Parallel to Ground	1171 mm	46.1 in
19	Rack Back Angle at Maximum Height	86.7°	
20	Bucket Pin Reach at Maximum Lift	415 mm	16.3 in
21	Bucket rollback angle (ground level)	27.3°	

275 XE Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit https://www.caterpillar.com/en/company/sustainability.

Engine

- The Cat® C3.6TA (turbocharged and after-cooled) engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels** up to:
  - ✓ 100% biodiesel FAME (fatty acid methyl ester)*
  - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

  Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

*For use of blends higher than 20% biodiesel, consult your Cat dealer.

**Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.85 kg of refrigerant which has a CO_2 equivalent of 1.216 metric tonnes.

Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
  - Barium < 0.01%
  - Cadmium < 0.01%
  - Chromium < 0.01%
  - Lead < 0.01%

Sound Performance

Operator Sound Pressure Level* 82 dB(A) (ISO 6396:2008)

Exterior Sound Power Level** 105 dB(A) (ISO 6395:2008)

- Cab and ROPS are standard in North America and Europe.

*The declared dynamic operator sound pressure levels per ISO 6395:2008. The measurements were conducted with the cab doors and windows closed and at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds.

**The labeled sound power level for the CE/UKCA marked configurations when measured according to the test procedure and conditions specified in European Union Directive "2000/14/EC" as amended by "2005/88/EC" and UK Noise Regulation 2001 No. 1701.

Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
  - Extended life coolant and long life hydraulic fluid extend maintenance intervals to reduce fluid consumption
  - Boost productivity with Cat technologies like work tool positioner, return to dig and Cat Smart Attachments
  - Save fuel with efficiency features such as foot throttle pedal and cooling system demand fan
  - Remote machine monitoring through onboard Product Link telematics

Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	60.78%
Rubber	18.53%
Iron	9.53%
Nonferrous Metal	2.72%
Fluid	1.64%
Plastic	1.56%
Other	1.51%
Uncategorized	1.20%
Mixed Metal	1.07%
Mixed-Metal and Nonmetal	0.99%
Lead (Batteries)	0.47%
Mixed Nonmetallic	0.00%
Total	100.00%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714:2008 (Earth-moving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused or both.

  All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714:2008 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

  Because of variations of product configurations, the following values in the table may vary.

Recyclability – 96%

The data provided above was based on the product configuration as provided by the individual product group.

ATTACHMENTS

Get more from your machine with Cat attachments. Choose from a wide variety of options and tailor your machine to different tasks and conditions.

- Augers
- Backhoes
- Bale Grabs
- Bale Spears
- Blades, Grader, Box, Angle and Dozer
- Brooms, Angle, Pickup and Utility
- Brushcutters
- Buckets
- Cold Planers
- Compactors
- Fork Tines and Carriages
- Hammers
- Material Handling Arm
- Mulchers
- Nursery Forks
- Rakes, Grapple, Landscape and Power Box
- Shears
- Snow Blowers
- Snow Plows
- Snow Pushes
- Snow Wings
- Stump Grinders
- Tillers
- Trenchers
- Wheel Saws
- Smart Backhoe
- Smart Dozer Blade with Assist
- Smart Grader Blade with Assist

275 XE Mandatory Equipment

MANDATORY EQUIPMENT

- Quick Coupler: Manual or Hydraulic
- High Visibility Seat Belt: 50 mm (2 in), 75 mm (3 in), or 3-point lap/shoulder
- Steel Imbed Rubber Track – 400 mm (15.7 in) block tread, 450 mm (17.7 in) block tread, 450 mm (17.7 in) bar tread
- Dual Flange Front Idler/Single Flange Rear Idler or Triple Flange Front/Rear Idlers

PERFORMANCE PACKAGES

- Performance Package HP5: *XE Hydraulics*
- Performance Package HP6: *XE Hydraulics, Rear Auxiliary Ready*

COMFORT PACKAGES

- Enclosed Cab with heat and air conditioning: *Side Windows, Cup Holder, Cell Phone Pocket, choice of Seat, High Back/Heated Air Ride Seat, or High Back/Ventilated and Heated Air Ride Seat) and Door choice (Glass or Polycarbonate)*

TECHNOLOGY PACKAGES

- T4 – *Advanced Touchscreen Monitor, Advanced Joysticks, Push start, X-mount cell phone holder, and a Rear-view camera.*
- T5 – *T4 + 2 additional side view cameras.*

RADIO

- Radio, *none – for open canopy machines and countries not certified for Bluetooth® technology*
- Integrated AM/FM radio with Bluetooth technology. *Includes USB port, 3.5 mm (0.13 in) AUX input, and BT microphone. Only for use with enclosed cab. Availability varies by country.*
- Integrated DAB+/AM/FM radio with Bluetooth technology. *Includes USB port, 3.5 mm (0.13 in) AUX input, and BT microphone. Only for use with enclosed cab. Availability varies by country.*

PRODUCT LINK™

- Product Link™ Basic series PL243
- Product Link Elite series PLE643

COOLING FAN

- On-demand, variable speed hydraulic cooling fan
- On-demand, variable speed hydraulic cooling fan, with automatic and manual purge reversing operation

GUARDING AND SEALING PACKAGES

- HD1 – intermediate guarding and sealing* (engine air inlet rain cap, front cab-to-frame sealing, hydraulic fill access door, cab to frame side sealing, lockable fuel fill access door, and tilt cylinder guarding.)
- LM1 – intermediate level land management guarding and sealing* (HD1 + turbo guard, exhaust stack wrap, Diesel Particulate Filter (DPF)/ Emission component wraps, light guarding, quick disconnect guarding, hydraulic lines guard cover (under step), screw-to-connect auxiliary hydraulic couplings, and engine air inlet pre-cleaner.)
- LM2 – most comprehensive land management guarding and sealing* (HD1 + increased fuel capacity (220 L/58 gal), turbo guard, exhaust stack wrap, DPF/Emission component wraps, light guarding, quick disconnect guarding, hydraulic lines guard cover (under step), screw-to-connect auxiliary hydraulic couplings, and engine air inlet pre-cleaner.)

*Some equipment varies by region.

STANDARD EQUIPMENT

ELECTRICAL

- Work Tool Electrical Harness
- Heavy duty battery
- Battery disconnect with lockout feature
- 12-volt Electrical System
- 100 Ampere Alternator
- LED Work Lights
- Auto Reverse Lights
- Switch Backlighting
- Interior LED Dome Light
- Backup Alarm
- Electrical Outlet, Beacon
- Exterior Courtesy Lighting

OPERATOR ENVIRONMENT

- Full color LCD monitor: *Creep speed control, Drive response adjustment, Implement response adjustment, Drive Power Priority adjustment, Language selection (× 32), Multi-operator Anti-theft Security System and Monitoring, Maintenance schedule and reminders, Event and Diagnostic Code monitoring, Date /Time/ Units/Brightness settings, and Smart Technology for use with Smart Attachments.*
- Operator Warning System Indicators: *Air Filter Restriction, Alternator Output, Armrest Raised/Operator Out of Seat, Engine Coolant Temperature, Engine Oil Pressure, Glow Plug Activation, Hydraulic Supply Filter Restriction, Hydraulic Oil Temperature, Park Brake Engaged, Engine Emission System (where applicable)*
- Gauges: *Fuel Level, Hour Meter, Hydraulic Temperature, Hour Meter, Battery Voltage, Tachometer*
- Fold In Ergonomic Contoured Armrest
- Control Interlock System, when operator leaves seat or armrest raised: *Hydraulic System Disables, Hydrostatic Transmission Disables, Parking Brake Engages*
- ROPS Cab, Tilt Up
- FOPS, Level I
- Top and Rear Windows
- Floor Mat
- Headliner
- Interior Rearview Mirror
- Horn
- Hand (Dial) Throttle, Electronic
- Seat Mounted Joystick Controls
- Cell Phone Storage Pocket
- Cup Holder
- 12-volt power port
- Foot Throttle

HYDRAULICS

- Selectable control pattern – ISO or H
- Electro/hydraulic implement control
- Electro/hydraulic hydrostatic transmission control
- Speed sensor guarding
- Heavy duty flat faced quick disconnects with integrated pressure release lever and case drain
- Hydraulic oil level sight gauge

POWER TRAIN

- Cat C3.6TA turbocharged, after-cooled diesel engine, meeting Tier 4 Final and Stage V Emission Standards:
  - Glow plugs starting aid
  - Liquid cooled, direct injection
- Extended life antifreeze (–37° C, –34° F)
- Air cleaner, dual element, radial seal
- Scheduled Oil Sampling (S·O·S℠) Valve, Hydraulic Oil
- Ecology drain – coolant
- Radiator coolant level sight gauge
- Radiator expansion bottle
- Filter, hydraulic supply, cartridge type
- Filter, hydraulic return, cartridge type
- Filter, canister type, engine oil
- Filter, canister type, fuel and water separator
- Radiator/hydraulic oil
- Cooler (side-by-side)
- Spring applied, hydraulically released, parking brakes
- Hydrostatic transmission
- Lockable fuel cap
- Hydraulic demand cooling fan
- Auto engine idle

UNDERCARRIAGE

- E-bar (equalizer bar) suspension
- Two speed travel
- Integrated tie downs on track frame (4)

FRAME

- Machine tie down points (9)
- Removable panels for machine frame cleanout
- Support, lift arm
- Steel rear and front bumpers, welded
- Fuel fill, machine right hand side

OTHER

- Auxiliary Hydraulics, Continuous Flow
- Telematics, Product Link, Cellular
- Steel engine door with replaceable louvers
- Engine door – lockable
- Work tool attachment coupler
- Cat ToughGuard™ hose

OPTIONAL EQUIPMENT

- External Counterweights
- Beacon, LED
- Oil, Hydraulic, Cold Operation
- 4-point machine lifting eyes
- Paint, Custom
- Speed Sensitive Ride Control
- Bluetooth Key Security
- Attachment Hose Guide
- Corrosion Inhibitor Coating

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at **www.cat.com**

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